

## Summary

**Title:** ABSORBENT ARTICLE  
**Doc Id:** JP 08-164160 A2  
**Assignee:** NEW OJI PAPER CO LTD  
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**US class:**  
**International class:** A61F 13/15 A; A61F 13/54 B; A61F 05/44 B  
**Issue date:** 06/25/1996  
**Filing date:** 12/16/1994

## Abstract:

**PURPOSE:** To increase spot absorbability and absorption speed and to improve a dry touch property by providing an absorbent article having an absorber with a second sheet between a top sheet and the absorber and forming this second sheet to the web form lower in density on the rear surface side than on the front surface side.

**CONSTITUTION:** The top sheet 1 of the absorbent article which has the absorber 4 between the liquid permeable top sheet 1 and a liquid impermeable back sheet 3 and is arranged with the second sheet 2 between the top sheet 1 and the absorber 4 is formed of hydrophilic fibers of a basis weight of 10 to 40g/m<sup>2</sup> and a fiber diameter of <math>\leq 4</math> denier. The second sheet 2 is formed to the web form by fusing the hydrophilic fibers having a fiber diameter of 1.5 to 10 denier and a length of 10 to 100mm at intersected points. The thickness under loading of 12g/m<sup>2</sup> is specified to 0.3 to 3.0mm and the average density to 0.01 to 0.05g/cm<sup>3</sup> and the front surface side of the second sheet 2 in contact with the top sheet 1 is formed to a relatively high density.

(C)1996,JPO

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**Absorbent article for absorbing body fluids rapidly with min. return to surface - comprises liq.-permeable top sheet, liq.-impermeable back sheet, absorbent between sheets and second sheet between top sheet and absorbent**

Patent Assignee: OJI PAPER CO (OJIP )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8164160	A	19960625	JP 94313379	A	19941216	199635 B

Priority Applications (No Type Date): JP 94313379 A 19941216

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8164160	A		8	A61F-013/15	

Abstract (Basic): JP 8164160 A

The absorbent article has a liq.-permeable top sheet, a liq.-impermeable back sheet and an absorbent between the sheets. A second sheet is disposed between the top sheet and absorbent. The top sheet is made of a hydrophilic fibre having a basis wt. of 10-40 g/m<sup>2</sup> and a dia. of the constituent fibre of up to 4 deniers. The second sheet consists of a hydrophilic fibre having a dia. of 1.5-10 deniers and a length of 10-100 mm and a thickness of 0.3-3.0 mm under a load of 12 g/cm<sup>2</sup> and an average density of 0.01-0.05 g/cm<sup>3</sup> and fused at intersections to form a web. The front side of the second sheet in contact with the top sheet has a higher density than the back side. Pref. the second sheet contains a fibre having a circular cross section and 10-80 wt.% w.r.t. the solid content, of a fibre having a miscellaneous cross-section, in the front and/or back side of the second sheet.

USE - The article may be a diaper, incontinence pad, sanitary napkin or bed sheet.

ADVANTAGE - The article absorbs urine and body fluids rapidly with reduced return and residue of liq. and no stickiness or leakage.

Dwg.3/3

Derwent Class: A96; D22; F07; P32

International Patent Class (Main): A61F-013/15

International Patent Class (Additional): A61F-005/44; A61F-013/54